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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/510,667	02/22/2000	Claus Strowitzki	249/302	2844	
30623	7590 07/02/2003				
MINTZ, LEVIN, COHN, FERRIS, GLOVSKY			EXAM	EXAMINER	
ONE FINANC	AND POPEO, P.C. ONE FINANCIAL CENTER		FLORES RUIZ, DELMA R		
BOSTON, MA	A 02111		ART UNIT	PAPER NUMBER	
			2828		
		DATE MAIL ED: 07/02/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/510,667	STROWITZKI, CLAUS				
Office Action Summary	Examiner	Art Unit				
	Delma R. Flores Ruiz	2828				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 24 N	<u>flarch 2003</u> .					
2a)⊠ This action is FINAL . 2b)□ Thi	is action is non-final.					
 Since this application is in condition for allowa closed in accordance with the practice under to Disposition of Claims 						
4) \boxtimes Claim(s) <u>1-20</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdraw	vn from consideration.	A				
5)⊠ Claim(s) <u>4-19</u> is/are allowed.		Parls				
6)⊠ Claim(s) <u>1-3,and 20</u> is/are rejected.						
7) Claim(s) is/are objected to.	A.1.	PAUL IP				
8) ☐ Claim(s) are subject to restriction and/or Application Papers		visory patent examiner Hnology center 2800				
9) The specification is objected to by the Examiner	•					
10) The drawing(s) filed on is/are: a) accep		miner.				
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. So	ee 37 CFR 1.85(a).				
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in rep	ly to this Office action.					
12)☐ The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior application from the International Bur	eau (PCT Rule 17.2(a)).	_				
* See the attached detailed Office action for a list of	•					
14) Acknowledgment is made of a claim for domestic						
 a) The translation of the foreign language pro- 15) Acknowledgment is made of a claim for domestic 	* •					
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				
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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 1 - 3, and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 1 - 3, and 20 are confusing, vague, and indefinite.

- Claims 1 3, and 20 are recites a dust-repelling unit for a laser optical element without the recitation of any dust repelling unit structure or a laser optical element structural. The claim recites only a high voltage cable in term of misleading language of a "high voltage duct", and a closed wire loop. There is no structural relationship recited in the claim to further define as how the high voltage dust is connected to the dust repelling unit or a laser optical element.
- The closed wire loop is not shown in any at the figures. The claim fails to clearly as how the closed wire loop is connected to the high voltage core or the dust-repelling unit. It is not clear as what a closed wire loop is

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recited in the claim. The recitation " a closed wire loop electrically connected to the second end of the high voltage core" is considered indefinite since the complete connection is not completely disclose so as one of ordinary skill in the art to understand all the connections of the elements as a system. Lacking of these limitation and its relationship recorder the claim confusing vague and indefinite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 – 3 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Das et al (5,377,215).

Regarding claims 1 – 3, and 20, Das discloses a dust repelling unit to be placed in a gas laser unit in front of laser optical element, comprising: a high-voltage duct (see Fig. 6, Character 88) comprising a high-voltage conducting core having a first end and second end and an insulator element disposed around the core, the first end of the core

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being connectable to high voltage power supply (see Fig. 3, Character 105, Column 6, Line 62 - 68); and a wire loop electrically (see Fig. 6, Character 98) connected to the second end of the high-voltage core and the high-voltage duct comprises a coaxial duct and high-voltage duct comprises a cylindrical ceramic tube (see Figs. 1 - 3, 5, 6, Abstract, Column 4, lines 40 - 50, 64 - 67, Column 5, lines 1, 26 - 36, Column 6, lines 5 - 16, 42 - 67).

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: claim 4 has been allowed over the prior art because they fail to teach a gas laser, comprising: a tube having a first end wall at one end and second end wall at the other end and defining a cavity for coating a laser gas an elongated high voltage electrode within the tube and extending parallel to the longitudinal axis of the tube; an elongated ground electrode within the tube, the ground electrode extending parallel to the high voltage electrode and being spaced apart from the high voltage electrode to thereby define a gas discharge gap therebetween; a laser resonating path in axial alignment with the gas discharge gap; a first laser optical element disposed in the laser resonating path and having a first side exposed to the cavity formed by the tube and a dedusting unit comprising a high-voltage duct comprising a high-voltage conducting core having a first end and second end and an insulator

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element disposed around the core, the first end of the core being connectable to high voltage power supply; and a wire loop electrically connected to the second end of the high-voltage core; and the dedusting unit mounted to the laser tube so that the wire loop is disposed inside the tube in proximity to the first side of the optical element, and the wire loop is transverse to the resonating path so that the resonating path passes through the wire loop.

Claims 5 – 12 has been found allowable due to their dependency on claim 4.

The following is an examiner's statement of reasons for allowance: claim 13 has been allowed over the prior art because they fail to teach a method for installing a dedusting unit for a laser optical element of a gas laser, comprising: a tube having a first end wall at one end and a second end wall at the other end and defining a cavity for containing a laser gas, a laser resonating path substantially parallel to the longitudinal axis of the tube and along which coherent light can resonate, and a laser optical element having a first side exposed to the cavity formed by the tube, the laser optical element being mounted to the first end wall so that the first side of the optical element is deposed in the laser resonating path, and wherein the dedusting unit for the optical element comprises a high-voltage duct comprising a high-voltage conducting core having a first end and second end and an insulator elem nt disposed around the core, the first end of the core being

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connectable to high voltage power supply; and a wire loop electrically connected to the second end of the high-voltage core, the method comprising the step of; flattering the wire loop into an elongated shape so that the width of the wire loop is similar that the diameter of a bore hole extending through the first end wall, inserting the wire loop through the bore until the elongated wire loop is inside the tube; expanding the elongated wire loop to a desired from which is transverse to the resonating path; and positioning the wire loop of desired from so that it is in proximity to the first side of the optical element and the laser resonating path passes through the wire loop.

Claims 14 – 17 has been found allowable due to their dependency on claim 13.

The following is an examiner's statement of reasons for allowance: claim 18 has been allowed over the prior art because they fail to teach a method for installing a dedusting unit for a laser optical element of a gas laser, comprising: a tube having a first end wall at one end and a second end wall at the other end and defining a cavity for containing a laser gas, a laser resonating path substantially parallel to the longitudinal axis of the tube and along which coherent light can resonate, and <u>a laser optical</u> element disposed in the laser resonating path and having a first side exposed to the cavity formed by the tube, wherein the first end wall has a port aligned with the resonating path and a bore holf or installing the dedusting unit therethrough

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nand the optical element is mounted to the first end wall in alignment with the port, and wherein the dedusting unit for the optical element comprises a high-voltage duct comprising a high-voltage conducting core having a first end and second end and an insulator element disposed around the core, the first end of the core being connectable to high voltage power supply; and a wire loop electrically connected to the second end of the high-voltage core, the method comprising the step of; flattering the wire loop into an elongated shape so that the width of the wire loop is similar that the diameter of a bore, inserting the wire loop through the bore until the elongated wire loop is inside the tube; expanding the elongated wire loop to a desired from which is transverse to the resonating path; and positioning the wire loop of desired from so that it is in proximity to the first side of the optical element and the laser resonating path passes through the wire loop.

The following is an examiner's statement of reasons for allowance: claim 19 has been allowed over the prior art because they fail to teach a method for installing a dedusting unit for a laser optical element of a gas laser, comprising: a tube with a first end wall and a second end wall and a bore hole extending through the firs end wall, wherein the dedusting unit for the optical element comprise <u>a high-voltage conducting</u> core having a first end and second end and an insulator element disposed around the core having a diameter which is lees than the bore hole in the first nd wall of

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the tube, the first end of the core being connectable to a high voltage power supply and a flattened wire loop electrically connected to the second end of the high-voltage core having a diameter smaller that the bore diameter, but which is capable of being expanded to a diameter grater that the bore diameter, the method comprising the step of; inserting the wire loop through the bore until the elongated wire loop is inside the tube; expanding the elongated wire loop to a desired from which has a diameter greater that the bore diameter and which is transverse to a laser resonating path that is substantially parallel to the longitudinal axis of the tube and positioning the wire loop of desired from so that it is in proximity to an optical element disposed in the laser resonating path and so that the laser resonating path passes through the wire loop.

Claims 4 – 19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reason for Allowance".

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Response to Arguments

Applicant's arguments in Paper # 13 filed March 31, 2003 have been fully considered but they are not persuasive.

Applicant argues the prior art lacks, Das et al. as noted above, claim 1 recites a dust repelling unit to be placed in a gas laser unit. The examiner disagree with applicant' arguments the recitation that "a dust repelling unit to be placed in a gas laser unit in front of a laser optical element" has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See In re Hirao, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and Kropa v. Robie. 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951). Also, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See In re Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963).

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Applicant's arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delma R. Flores Ruiz whose telephone number is (703) 308-6238. The examiner can normally be reached on M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3431.

Delma XSE⊈

Examiner Art Unit 2828

DRFR/PI

June 11, 2003

Paul Ip Supervisor Patent Examiner

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